



EPA Region 1 Clean Water Act Inspection Data Entry Form: 3560EZ

Version 1.03

Inspector:	Alex Rosenberg	Date form completed:	6/19/2015
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Section A: Facility Information			
Inspection start date:	3/18/2014	Inspection start time:	1030am
Inspection end date (if more than one day):	3/18/2014	Inspection finish time:	330pm
NPDES ID:	MER041029 (NOT IN ICIS)	Federal facility?	No
Name and Location of Facility Inspected:			

Name:	Town of York				
Address:	186 York St				
City:	York	State:	ME	ZIP:	03909

Facility Representative #1:					
Name:	Leslie Hinz	Title:	MS4 Coordinator		
Address (if off-site):	Enter text				
City:	Enter text	State:	Enter text	ZIP:	Enter text
Phone #:	2073631002	Email:	lhinz@yorkmaine.org		

Facility Representative #2 (if necessary):					
Name:	Robert Yandow, Town Manager	Title:	Enter text		
Address (if off-site):	Dean Lessard, Director of Public Works				
City:	Enter text	State:	Enter text	ZIP:	Enter text
Phone #:	Enter text	Email:	Enter text		

Section B: Compliance Monitoring Information	
Clean Water Act Section (choose from only one of the following):	
CWA §308[A][B]: NPDES	Stormwater - MS4
CWA §311: Oil and Hazardous Substances	Choose an item
CWA §404: Permits for Dredge and Fill Material	Choose an item
Compliance Monitoring Type:	Audit - MS4
Compliance Monitoring Reason:	Core Program
If Agency Priority, then specify priority(s):	
OECA - CAFO	<input type="checkbox"/>
OECA - CAFO Region Initiative Areas	<input type="checkbox"/>
OECA - CSOs w/ < 50,000 service population	<input type="checkbox"/>
OECA - CSOs w/ >= 50,000 service population	<input type="checkbox"/>
OECA - MS4s Phase I	<input type="checkbox"/>
OECA - MS4s Phase II	<input checked="" type="checkbox"/>

OECA - SSOs ≥ 10 MGD and < 100 MGD	<input type="checkbox"/>
Region 1 - Environmental Justice	<input type="checkbox"/>
Region 1 - Green Economy / Green Infrastructure	<input type="checkbox"/>
Region 1 - Industrial Laundries	<input type="checkbox"/>
Region 1 - Lead Poisoning	<input type="checkbox"/>
Region 1 - Municipal Infrastructure	<input type="checkbox"/>
Region 1 - Pollution Prevention & Resource Conservation	<input type="checkbox"/>
Region 1 - Ship / Boat Yards	<input type="checkbox"/>
Region 1 - Wet Weather	<input checked="" type="checkbox"/>

Compliance Monitoring Agency Type:	EPA
Was this a Joint Compliance Monitoring Activity?	No
If Joint, which party had the lead?	Choose an item or leave blank if N/A
If State lead, what was the purpose of EPA participation?	Choose an item or leave blank if N/A

Section C: ICDS Information	
Did you observe deficiencies (potential violations) during the inspection?	Choose an item
Potential excess emission in violation of regulations:	<input type="checkbox"/>
Potential failure to...	<input type="checkbox"/>
... complete or submit a notification, report, certification, or manifest:	<input type="checkbox"/>
... follow a permit condition(s):	<input type="checkbox"/>
... follow a required sample monitoring procedure or laboratory procedure:	<input type="checkbox"/>
... follow or develop a required management practice or procedure:	<input type="checkbox"/>
... identify and manage a regulated waste or pollutant in any media:	<input type="checkbox"/>
... maintain a record or failure to disclose a document:	<input type="checkbox"/>
... maintain/inspect/repair meters, sensors, and recording equipment:	<input type="checkbox"/>
... obtain a permit, product approval, or certification:	<input type="checkbox"/>
... report regulated events such as spills, accidents, etc.:	<input type="checkbox"/>
Potential incorrect use of a material (pesticide, waste, product) or use of an unapproved material:	<input type="checkbox"/>
Potential violation of a compliance schedule in an enforceable order:	<input type="checkbox"/>
If you observed deficiencies, did you communicate the deficiencies to the Facility during the inspection?	Choose an item
If yes, did you observe the Facility take any actions during the inspection to address the deficiencies noted?	Choose an item
If yes, what actions were taken?	Choose an item
If the Facility reduced pollution, what pollutant was reduced?	Enter text
Did you provide <i>general compliance assistance</i> in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?	Choose an item
Did you provide <i>site-specific compliance assistance</i> in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?	Choose an item

Comments:
Municipality is a new MS4 permittee and therefore has not yet come to any deadline of permit requirements. EPA gave technical assistance regarding their need to read the multi-municipal Stormwater Management Plan and produce an IDDE plan. Provided NE Bacteria Source Tracking Protocol for their information.



**United States Environmental Protection Agency
Region I - EPA New England
5 Post Office Square
Boston, MA 02109-3912**

Drafted Date: 3/19/14
Finalized Date: 4/8/14

Subj: MS4 Audit - Inspection Report

From: Alex Rosenberg, EPA

Thru: Denny Dart, Water Technical Unit Manager, EPA

To: File

I. Facility Information

- A. *Facility Name:* Town of York
- B. *Facility Location:* 186 York St
York ME 03909
- C. *Facility Contacts:* (present at inspection)
Leslie Hinz, Stormwater Manager/Plumbing
inspector/Shoreline manager
207-363-1002 lhinz@yorkmaine.org
Dean Lessard, Director Public Works
- D. *NPDES ID Number:* MER041029 (Effective July 1, 2013)

II. Background Information

- A. *Date and time of inspection:* 3/18/14
Facility entrance: 1030am
Facility exit: 330pm
- B. *Weather Conditions:* clear, crisp (no antecedent rain for prior 72 hours)
- C. *US EPA Representative(s):* Alex Rosenberg, Erin Trainor
- D. *State/Local Representative(s):* none

E. Federally Enforceable Requirements Covered During the Inspection:

State of Maine's MS4 general permit dated July 1, 2013

F. Previous Enforcement Actions: none

III Type and Purpose of Inspection

In January 2014 the town contacted EPA for technical assistance regarding source tracking of illicit discharges to the Cape Neddick River Watershed. EPA had conducted two sampling events in September 2012 and May 2013, which included testing for various in-field parameters, as well as laboratory bacteria and pharmaceutical analyses. EPA sent the Town of York this data in February 2014. In an attempt to gain a better understanding of the Town's data and efforts, EPA representatives met with Town officials on March 18, 2014. This meeting was an MS4 audit.

IV Facility Description

The Town of York ("Town") is a newly permitted MS4 Urbanized Area ("UA") located along the Atlantic Coast. The UA is centralized around a densely populated downtown zone along two beaches, Short Sands beach and Long Sands beach, but does extend north into the Cape Neddick River watershed, and south into the York River watershed.

The Town of York is part of York County MS4s (York, Kittery, Eliot, S. Berwick, Berwick) who create a collective Stormwater Management Plan ("SWPMP") using the consultant, Kristie Rabasca.

V. Inspection

Opening Interview

Attendees at the opening conference and throughout the remainder of the inspection were Alex Rosenberg, EPA, Erin Trainor, EPA, Dean Lessard, Director of Public Works Town of York and Leslie Hinz Stormwater Manager/Plumbing Inspector/Shoreland Manager Town of York.

Dean Lessard explained that in 2005 the Town conducted a drainage study which provided sub-watershed catchment maps for each stormwater outfall. The study also analyzed historic bacteria data taken during the study and by Maine Healthy Beaches, a not-for-profit program that conducts water quality monitoring at beaches throughout the state. The 2005 study hypothesized the percent of bacterial contamination from different sources (bird, animal, or human septic systems). By reviewing only one page of the report during the inspection the scientific approach that underpinned this hypothesis was unable to be identified.

Dean Lessard also mentioned that the Town had replaced a few outfalls along Short Sands beach in 2011 and was recently awarded a 1.1 million dollar grant to replace two more outfalls on Long Sands Beach.

EPA asked what the Cape Neddick (“CN”) Watershed Association is and how, if at all, it relates to the Town. Leslie Hinz and Dean Lessard explained that the CN Watershed Association is a rotating group of three or four individuals with interest in the CN Watershed (mostly property owners). Leslie Hinz explained further that because any expense by the Town is voted on by the entire public and any town member can put something out to vote, the association pushes their agenda through the Town’s budget process. The association previously secured funding for a Watershed Management Plan for the CN River Watershed and have currently put on the ballot for May of 2014 a 63 thousand dollar funding request for the creation of a water quality monitoring program. The program hopes to correlate safe swimming conditions on York’s beaches with magnitude of antecedent precipitation events.

A review of the Town’s stormwater program management plan (SWPMP) during a break in the opening interview allowed EPA representatives to observe the following. On November 18, 2013, Robert Yannow of Town of York signed the certification statement approving the five town MS4 SWPMP.

No permit condition schedule violations were observed during the inspection. Part IV. A. of the 2013 MS4 permit requires that “the [Stormwater Program Management] Plan (SWPMP) and all Minimum Control Measures (MCMs) must be substantially implement by June 30, 2018”.

Both Leslie Hinz and Dean Lessard stated during the inspection that they believed they had no water’s within their MS4 area that have EPA approved Total Maximum Daily Loads (“TMDL”). They were sure that many of their waters were impaired but were unaware of whether they were listed within any TMDL. Measureable Goal 3.3.1, BMP 3.3 of the Town’s SWPMP lists in Appendix C the waterbodies addressed by the Statewide Bacteria TMDL. Appendix C states that through a consistency evaluation “the towns [within the York County MS4s] will conduct dry weather outfall inspections in the watersheds for each of the areas listed [in Appendix C]”. The Statewide bacteria TMDL lists the following waterbodies in York: the York River, York Harbor, Barrells Mill pond (DMR Area 3), Little River, and Cape Neddick River (DMR Area 4).

BMP 3.4 and the associated measurable goal 3.4.1 within York’s SWPMP states that the Town will implement a strategy to detect illicit discharges in their open ditch system within these watersheds.

Also regarding TMDL consistency evaluation, according to Appendix C of their SWPMP the Town must develop a list of aging septic systems by June 20, 2016 (also referenced in BMP 3.5; measureable goal 3.5.1). Leslie Hinz stated that the Town did not have a complete inventory of how individual properties dispose of their waste (Septic, sewer or otherwise). She did say that since she began working in her position as the plumbing

inspector she has kept a list of all septic systems that have been either installed or reported on (complaint, or maintenance). EPA representatives mentioned that creating a complete inventory of the sewage disposal methods for every property in town would be a very good starting point for the Illicit Discharge Detection and Elimination (IDDE) program.

When discussing the coordination of a future sampling event that EPA could possibly be involved in EPA questioned whether the Town preferred if the sampling occurred before or after the June 30, 2014 meeting with the State of Maine's Department of Marine Resources (DMR) that is outlined as a BMP within the Town's SWPMP. Leslie Hinz and Dean Lessard did not have any knowledge of the meeting. It was therefore suggested by EPA officials that (a) the Town re-read their SWPMP to become familiar with all BMPs and permit requirements and (b) if EPA were to sample again that it would most likely be in May or early June.

Leslie Hinz and Dean Lessard described how a majority of the MS4 area's stormwater is conveyed to waters of the US via open ditches and not closed pipe (underground systems). Their SWPMP (BMP 3.4; measurable goal 3.4.1) states that by June 30, 2018 the Town will develop a strategy to detect illicit discharges to the open ditch system within the urbanized area. This section notes again, as it does throughout the entire SWPMP that there is only one watershed within the town, the *Frontal Discharges of Southern York County Watershed*.

Leslie Hinz and Dean Lessard mentioned more than once that the Town's priority watershed is the Cape Neddick Watershed. From a post-inspection review of the Town's SWPMP, EPA observes that the Cape Neddick River Watershed is defined within the SWPMP as the Town's priority sub-watershed.

By reading notices posted in the opening interview's conference room, EPA noted that the Town of York has posted a vacancy notice of the position of Town Planner. Leslie Hinz explained that the Town Planner is not associated with the MS4 program. In York she explained that the Community Development Director, Steven Burns, is her boss. Within the town's SWPMP (MCM3; BMP 3.1) it lists the Community Development Director as the responsible party for maintaining an updated watershed-based stormwater infrastructure map. Steven was not present at the inspection and both Leslie Hinz and Dean Lessard were unclear as to what percentage of the stormwater infrastructure had been mapped.

The Stormwater Manager / Shoreland Resource Officer (Leslie Hinz) is noted within the SWPMP as the responsible party for the BMP 3.3; measurable goal 3.3.1. – Implement Dry Weather Outfall Inspection Plan. The SWPMP states that "York will develop and implement a prioritized dry weather outfall inspection plan by June 30, 2014. The plan will pertain to the **watershed or subwatershed** of a receiving water that the town identifies as having the greatest potential threat from stormwater or illicit non-stormwater dischargers" (p21).

Field Recon:

Inspectors and town personnel drove along York Road and observed that the sanitary sewer main runs to the west of the road. The road, and any associated stormwater infrastructure is between the main sanitary line and the beach. Illicit connections from sanitary sewer infrastructure could still enter the stormwater outfalls at the beach via exfiltration or overflows that enter open ditch conveyances.

The group stopped at sample location CNR-9B, labeled within the FB Environmental source tracking report (which used both dogs and e.coli sampling) as CN-5. The area, which was found to have high bacteria and an indication (one out of two dogs) of human derived bacteria, was sparsely populated. Dean Lessard noted that there was evidence that the culvert had been replaced at this location within the past few years. The samples were all taken on the upstream side of the road crossing beside Lois Ln.

The group went to the sewer district's offices to see the map of sewer infrastructure. The sewer district employee explained to both the inspectors and the Dean Lessard and Leslie Hinz that their maps were accessible through their website. The group observed, while obtaining print outs of areas around Long Sands and Short Sands beaches that a few of the trailer parks that were thought to be on septic are actually sewered. EPA inspectors mentioned to Town staff again that they should have these maps with their MS4 materials.

The WWTP staff, Michael Tibbetts 207-363-5896; mtibbetts@yorksewerdistrict.org; www.yorksewerdistrict.org) stated that they have not had a single SSO in the past few years. The staff at the Wastewater Treatment Plant mentioned that they were willing to run bacteria tests for the MS4 program and that their sewer maps are all on their website.

Another stop during the recon was at a pump station off of York road. The property around the pump station was flooded. Dean Lessard explained that a stormwater pipe had clogged, was recently cleaned out and this was the reason for the high water level. He also explained that flooding in the area occurs after any significant rain event. All of the homes were propped up on three or four cement blocks.

Technical Assistance:

EPA allowed the Town to make a copy of the EPA NE Bacterial Source Tracking Draft Protocol and suggested that the Town utilize its contents when developing their program including the in-field test kits. EPA also provided the Town with a 'Stormwater Communications' brochure (copy of which is in the file) on Stormwater Utilities because EPA representatives had participated in a workshop held by the Town on sustainable water ordinances that concluded the Town would probably work towards the creation of a stormwater utility.

Closing Conference

Next steps were discussed regarding the possibility of EPA providing technical assistance for IDDE work (sampling). Erin Trainor is going to review the Sewer District maps and will propose a date for a sample recon event later in the spring of 2014. The Town will begin to draft their IDDE program and will communicate with EPA about the proposed meeting with the DMR that is outlined in their SWPMP.



United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NDPES	yy/mm/dd	Inspection Type	Inspector	Fac Type
1 N	2	3	11 12 1 2 / 0 9 / 0 4	17 18 <	19 R 20
Inspection Type Description					
Stormwater-MS4-sampling					
Remarks					
21					
66					
Inspection Work Days					
Facility Self-Monitoring Evaluation Rating					
B1					
QA					
Reserved					
67 1 . 0 69					
70					
71					
72					
73					
74 75					
80					

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)	Entry Time/Date	Permit Effective Date
• Tributary entering Cape Neddick River northeast of the Clark Road street crossing along River Road, identified as CNR-13 (43.1934464907793 N, 70.615567201769 W).	8:00AM 9/4/2012	
• Outfall located on the north end of Short Sands Beach, identified as SS01 and SS01-2 (43.1759059320139 N, 70.6085451699441 W). Note: This outfall was sampled twice as more flow was observed after a rain event during the inspection.	Exit Time/Date	Permit Expiration Date
• In-stream sample located to the southeast of Burnette's Trailers and Tents, identified as SS01A (43.1758379307235 N, 70.6113456006386 W).	12:00PM 9/4/2012	
• Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean, identified as LR01 (43.1758379307235 N, 70.6113456006386 W).		
• Outfall located along Long Sands Beach across from Long Sands Road, identified as LSR (43.1522252060135 N, 70.6242635976591 W).		
• Outfall located along Long Sands Beach across from 325 Long Beach Avenue, identified as LS01 (43.1544155648125 N, 70.6233756273515 W).		
• Outfall located along Long Sands Beach across from Oceanside Avenue, identified as LS04 (43.1651189592212 N, 70.6170901253628 W).		
• Outfall located along Long Sands Beach across from 67 Long Beach Avenue, identified as LS03 (43.1681918975235 N, 70.6124810264161 W).		
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data:	
No contact with the Town of York was made during this sampling inspection.	Receiving Water: Atlantic Ocean	
Name, Address of responsible Official/Title/Phone and Fax Number.		
Dean Lessard, P.E.		
Director of Public Works, Town of York		
Phone: (207) 363-1010 Fax: (207) 363-1012		
Contacted		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input type="checkbox"/> Permit	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	<input checked="" type="checkbox"/> MS4
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pollution Prevention	
<input type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input checked="" type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments (Attach additional sheets of narrative and checklists as necessary)

SEV Codes	SEV Description	
Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
Erin F. Trainor	US EPA / EIA / p. (617) 918-8382 / f. (617) 918-8282	9/21/2012
Todd Borci	US EPA / EIA / p. (617) 918-1358 / f. (617) 918-1810	9/21/2012
Signature of Management QA Reviewer	Agency/Office/Phone and Fax Numbers	Date



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

DATE: September 21, 2012
SUBJ: MS4 Compliance Sampling Inspections
Town of York, Maine
FROM: Erin Trainor, Inspector
TO: File

I. Background Information

- A. Date, Time of inspection: Tuesday, September 4, 2012, 8:00 AM
- B. Weather Conditions: Overcast with intermittent rain, approximately 60 degrees F
- C. USEPA Representatives: Erin Trainor
Todd Borci
- D. Site Representative(s): Dean Lessard, P.E
Town of York
Director of Public Works
186 York Street, York, Maine 03909

Note: The Site Representative was not contacted.

- E. Address: Various locations along the Cape Neddick River, Short Sands Beach, Long Sands Beach, and the Little River

II. Purpose of Inspection

The purpose of the inspection was to identify illicit connections or illegal discharges within the Town of York municipal separate stormwater sewer system (MS4) that may adversely impact the water quality. Samples were collected from nine (9) stormwater outfalls and/or culverts in accordance with the Environmental Investigations and Analysis (EIA) unit Stormwater Program Plan.

III. Description of Sampling Locations

- Tributary entering Cape Neddick River northeast of the Clark Road street crossing along River Road, identified as CNR-13 (43.1934464907793 N, 70.615567201769 W).

- Outfall located on the north end of Short Sands Beach, identified at SS01 and SS01-2 (43.1759059320139 N, 70.6085451699441 W). Note: This outfall was sampled twice as more flow was observed after a rain event during the inspection.
- In-stream sample located to the southeast of Burnette's Trailers and Tents, identified as SS01A (43.1758379307235 N, 70.6113456006386 W).
- Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean, identified as LR01 (43.1758379307235 N, 70.6113456006386 W).
- Outfall located along Long Sands Beach across from Long Sands Road, identified as LSR (43.1522252060135 N, 70.6242635976591 W).
- Outfall located along Long Sands Beach across from 325 Long Beach Avenue, identified as LS01 (43.1544155648125 N, 70.6233756273515 W).
- Outfall located along Long Sands Beach across from Oceanside Avenue, identified as LS04 (43.1651189592212 N, 70.6170901253628 W).
- Outfall located along Long Sands Beach across from 67 Long Beach Avenue, identified as LS03 (43.1681918975235 N, 70.6124810264161 W).

Note: Coordinates obtained from ESRI® ArcGIS Explorer.

IV. Inspection Observations and Findings

On Tuesday, September 4, 2012, EPA inspectors Todd Borci and Erin Trainor conducted an unannounced Compliance Sampling Inspection (CSI) within the Town of York, Maine at nine (9) locations along Long Sands Beach, Short Sands Beach, Cape Neddick River, and Little River.

The inspection started in York at approximately 8:00 AM. At the time of the inspection, the weather was overcast with intermittent rain and approximately 60 degrees Fahrenheit. A rain event of 0.1 inches was reported on September 3, 2012. Low to no flows were generally observed.

The sampling locations described in Section III were analyzed at the EPA New England Regional Laboratory (NERL) for E.Coli, Enterococcus, and pharmaceutical and personal care products (PPCPs) including: Atenolol, Acetaminophen, Cotinine, 1,7-Dimethylxanthine, Caffeine, Carbamazepine, and Metoprolol. In-situ measurements for conductivity, salinity, and temperature were also recorded. The following table summarizes the findings and laboratory results. Photographs are included.

End of Report

Attachments:

Table 1: Summary of York, ME MS4 Inspection, Cape Neddick River and Short Sands Beach, September 4, 2012

Table 2: Summary of York, ME MS4 Inspection, Little River and Long Sands Beach, September 4, 2012

Photographs

Table 1: Summary of York, ME MS4 Inspection, Cape Neddick River and Short Sands Beach, September 4, 2012

Sample ID	CNR-13	SS01	SS01A	SS01-2
Time	08:10	08:30	08:55	11:10
Latitude/Longitude	43.1934464907793 N, 70.615567201769 W	43.1759059320139 N, 70.6085451699441 W	43.1758379307235 N, 70.6113456006386 W	43.1759059320139 N, 70.6085451699441 W
Description of Location	Tributary entering Cape Neddick River northeast of the Clark Road street crossing along River Road.	Outfall located on the north end of Short Sands Beach.	In-stream sample located to the southeast of Burnette's Trailers and Tents.	Outfall located on the north end of Short Sands Beach.
Physical Observations	Approx. 4'x4' square outfall. Algae growth over spillway. No odor.	Flow approx 10 GPM. No odor.	Approx. 5'x10' rectangular outfall. Water flowing into outfall. Low flow. No odor.	Flow approx 25-30 GPM. No odor.
Temperature, °C	17.0	20.3	17.6	19.4
Specific Conductivity, µS	40.89 (mS)	5.92 (mS)	139.9	3427
Salinity, ppt	26.3	3.2	0.1	1.8
Atenolol, ng/l	ND	ND	ND	ND
Acetaminophen, ng/l	ND	ND	48	62
Cotinine, ng/l	0.58	3.3	2.8	ND
1,7-Dimethylxanthine, ng/l	ND	ND	4.9	140
Caffeine, ng/l	ND	20	16	11,000
Carbamazepine, ng/l	ND	3.5	0.79	0.59
Metoprolol, ng/l	ND	ND	ND	2.0
E.Coli, MPN/100ml	96	16	ND	2,190
Enterococcus, MPN/100ml	160	ND	ND	2,035

NA: Not analyzed

ND: Not detected above reporting limit

GPM: gallons per minute

Table 2: Summary of York, ME MS4 Inspection, Little River and Long Sands Beach, September 4, 2012

Sample ID	LR01	LSR01	LS01	LS04	LS03
Time	10:00	10:15	10:20	10:45	11:30
Latitude/Longitude	43.1758379307235 N, 70.6113456006386 W	43.1522252060135 N, 70.6242635976591 W	43.1544155648125 N, 70.6233756273515 W	43.1651189592212 N, 70.6170901253628 W	43.1681918975235 N, 70.6124810264161 W
Description of Location	Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean.	Outfall located along Long Sands Beach across from Long Sands Road.	Outfall located along Long Sands Beach across from 325 Long Beach Avenue.	Outfall located along Long Sands Beach across from Oceanside Avenue.	Outfall located along Long Sands Beach across from 67 Long Beach Avenue.
Physical Observations	Flow approx 8 GPM. No odor.	Suds present. Flow approx 5 GPM. No odor.	Flow approx 5 GPM. No odor.	Flow approx 2 GPM. No odor.	Flow approx 8 GPM. No odor.
Temperature, °C	19.5	19.4	18.2	20.9	19.8
Specific Conductivity, µS	277.8	4481	2214	117.3	238.1
Salinity, ppt	0.1	2.3	1.2	0.1	0.1
Atenolol, ng/l	ND	ND	ND	2.6	ND
Acetaminophen, ng/l	ND	110	1.4	72	41
Cotinine, ng/l	2.8	500	6.6	690	120
1,7-Dimethylxanthine, ng/l	ND	120	0.69	310	36
Caffeine, ng/l	3.7	3,000	260	19,000	980
Carbamazepine, ng/l	7.4	ND	0.24	ND	ND
Metoprolol, ng/l	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	744	3,080	362	2,452	6,212
Enterococcus, MPN/100ml	121	1,354	185	2,755	5,475

NA: Not analyzed

ND: Not detected above reporting limit

GPM: gallons per minute



CNR-13: Tributary entering Cape Neddick River northeast of the Clark Road street crossing along River Road.



SS01 and SS01-2: Outfall located on the north end of Short Sands Beach.



SS01A: In-stream sample located to the southeast of Burnette's Trailers and Tents.



LR01: Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean.



LSR01: Outfall located along Long Sands Beach across from Long Sands Road.



LS01: Outfall located along Long Sands Beach across from 325 Long Beach Avenue.

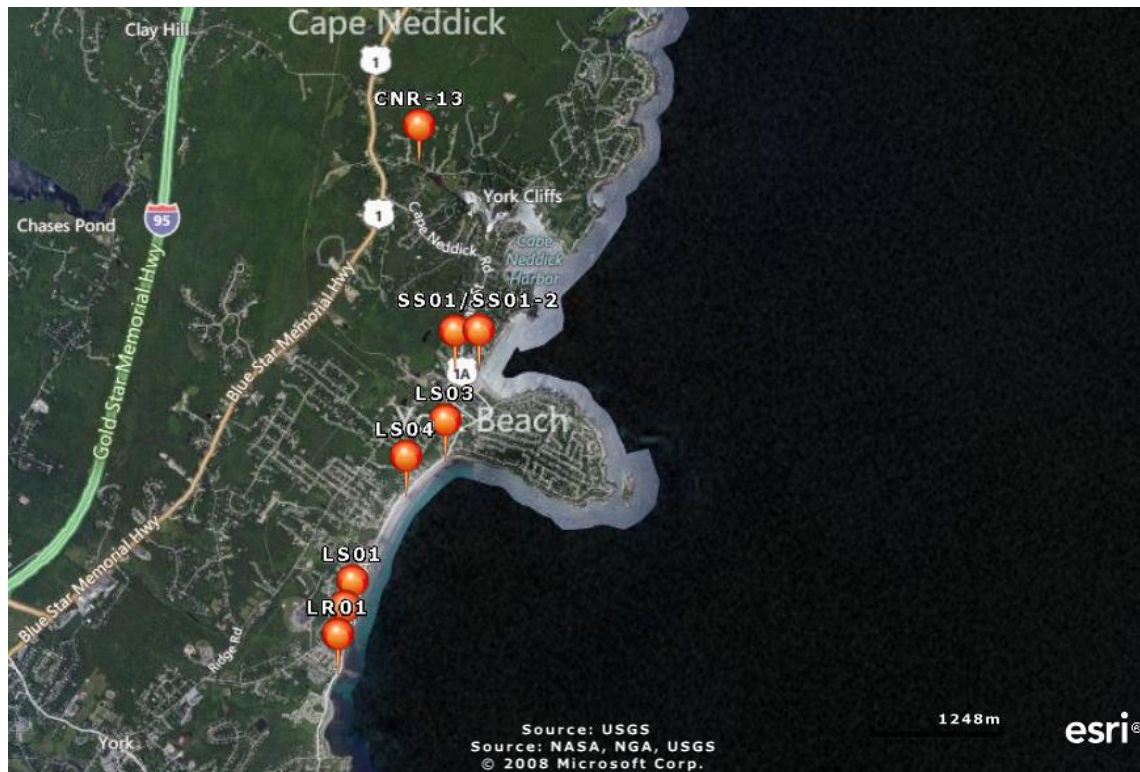


LS04: Outfall located along Long Sands Beach across from Oceanside Avenue.



LS03: Outfall located along Long Sands Beach across from 67 Long Beach Avenue.

MS4 Compliance Sampling Inspection
Town of York, Maine



Map depicting sampling locations.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

DATE: July 11, 2013

SUBJ: MS4 Compliance Sampling Inspection
Town of York, Maine

FROM: Erin Trainor, Inspector

TO: File

REVIEWED BY:

REQUESTED BY: Alex Rosenberg, OES

I. Background Information

- A. Date, Time of inspection: Wednesday, May 29, 2013, 8:30 AM
- B. Weather Conditions: Overcast, periods of light rain, approximately 70 degrees F
- C. USEPA Representatives: Erin Trainor
Alex Rosenberg
Todd Borci
- D. Site Representative(s): Dean Lessard, P.E
Town of York
Director of Public Works
186 York Street, York, Maine 03909

Note: The Site Representative was not contacted.

- E. Address: Various locations along Short Sands Beach, Long Sands Beach, and the Little River.

II. Purpose of Inspection

The purpose of the inspection was to identify illicit connections or illegal discharges within the Town of York municipal separate stormwater sewer system (MS4) that may adversely impact the water quality. Samples were collected from twelve (12) stormwater outfalls and/or culverts in accordance with the Environmental Investigations and Analysis (EIA) unit Stormwater Program Plan.

III. Description of Sampling Locations

- Outfall located on the north end of Short Sands Beach, identified at SS01.
- In-stream sample located to the southeast of Burnette's Trailers and Tents, identified as SS01A.
- In-stream sample located within the Burnette's Trailers and Tents property, to the southeast (downstream) of the bridge crossing, identified as SS01B.
- In-stream sample collected from the northwest end of Burnette's Trailers and Tents property, identified as SS01C.
- Outfall located along Long Sands Beach across from 67 Long Beach Avenue, identified as LS03.
- Outfall located along Long Sands Beach across from 155 Long Beach Avenue, identified as MHB04.
- Outfall located along Long Sands Beach across from Oceanside Avenue, identified as LS04.
- Culverted stream located along Long Sands Beach between Beacon Street and Juniper Road, identified as LS02.
- Outfall located along Long Sands Beach across from 251 Long Beach Avenue, identified as LS05.
- Outfall located along Long Sands Beach across from 325 Long Beach Avenue, identified as LS01.
- Outfall located along Long Sands Beach across from Long Sands Road, identified as LSR01.
- Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean, identified as LR01.

IV. Inspection Observations and Findings

On Wednesday May 29, 2013, EPA inspectors Todd Borci, Alex Rosenberg, and Erin Trainor conducted an unannounced Compliance Sampling Inspection (CSI) within the Town of York, Maine at twelve (12) locations along Short Sands Beach, Long Sands Beach, and the Little River.

The inspection started in York at approximately 8:30 AM. At the time of the inspection, the weather was overcast with periods of light rain, and approximately 70 degrees Fahrenheit. According to weather underground, approximately ½ inch of rain was reported within 48 hours of the inspection at the closest weather station located in Portsmouth, New Hampshire.

The sampling locations described in Section III were field screened using test kits for ammonia, chlorine, and surfactants and analyzed for E.Coli, Enterococcus, and pharmaceutical and personal care products (PPCPs) including: Atenolol, Acetaminophen, Cotinine, 1,7-Dimethylxanthine, Caffeine, Carbamazepine, and Metoprolol at the EPA New England Regional Laboratory (NERL). In-situ measurements for conductivity, salinity, and temperature were also recorded. The following table summarizes the findings. Photographs are included.

End of Report

Attachments: Table 1: Summary of York, ME MS4 Inspection – May 29, 2013

Photographs

Table 1: Summary of York, ME MS4 Inspection – May 29, 2013

Sample ID	SS01	SS01A	SS01B	SS01C	LS03	MHB04
Time	08:30	08:45	09:15	09:30	10:00	10:25
Latitude/Longitude	43.17605679 N / 70.60872532 W	43.1758591 N / 70.61131543 W	43.17652488 N / 70.61205247 W	43.17709084 N / 70.61331325 W	43.16822303 N / 70.61252298 W	43.1650857 N / 70.61714272 W
Description of Location	Outfall located on the north end of Short Sands Beach.	In-stream sample located to the southeast of Burnette's Trailers and Tents.	In-stream sample located within the Burnette's Trailers and Tents property, to the southeast (downstream) of the bridge crossing.	In-stream sample collected from the northwest end of Burnette's Trailers and Tents property.	Outfall located along Long Sands Beach across from 67 Long Beach Avenue.	Outfall located along Long Sands Beach across from 155 Long Beach Avenue.
Physical Observations	Flow > 100 GPM. Strong, musty odor.	Moderate flow. Sample collected before going underground.	Moderate flow. Suds observed. Sample collected southeast/downstream of bridge/bathhouse.	Low to moderate flow. Some suds observed. Collected between No. 4 and No. 5 posts.	Flow > 100 GPM. Some suds present. Sample collected from combined stream of two outfalls.	Flow approx. 50-100 GPM. Sample collected from south side of outfall. Partially tannin, mostly clear.
Temperature, °C	12.8	12.6	12.6	12.6	12.6	12.4
Specific Conductivity, µS	625	221.9	219.5	203.0	374.4	431
Salinity, ppt	0.3	0.1	0.1	0.1	0.2	0.2
Ammonia, mg/L	0	0	0.25	0.1	0.25	0.1
Chlorine, mg/L	0.02	0.01	0	NA	0.0	0.01
Surfactants, mg/L	0.20	0.20	0.15	0.2	0.25	0.2
Atenolol, ng/l	ND	ND	ND	ND	ND	ND
Acetaminophen, ng/l	3.6	3.6	4.8	ND	2.1	ND
Cotinine, ng/l	9.2	0.89	0.64	0.88	1.7	1.3
1,7-Dimethylxanthine, ng/l	8.0*	3.4*	1.8*	4.2*	2.3*	ND
Caffeine, ng/l	380	7.6*	11*	14*	18*	8.4*
Carbamazepine, ng/l	1.1	1.2	1.4	1.6	ND	ND
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	160	49	34	44	22,470	394
Enterococcus, MPN/100ml	63	10	10	ND	1,019	10

Table 1: Summary of York, ME MS4 Inspection – May 29, 2013, continued

Sample ID	LS04	LS02	LS05	LS01	LSR01	LR01
Time	10:35	10:50	11:05	11:15	11:40	12:05
Latitude/Longitude	43.16396263 N / 70.61854616 W	43.16157841 N / 70.62021881 W	43.15970192 N / 70.62115498 W	43.15440719 N / 70.62337826 W	43.15222774 N / 70.62426748 W	43.14983502 N / 70.6250598 W
Description of Location	Outfall located along Long Sands Beach across from Oceanside Avenue.	Culverted stream located along Long Sands Beach between Beacon Street and Juniper Road.	Outfall located along Long Sands Beach across from 251 Long Beach Avenue.	Outfall located along Long Sands Beach across from 325 Long Beach Avenue.	Outfall located along Long Sands Beach across from Long Sands Road.	Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean
Physical Observations	Flow approx. 3 GPM. 12" PVC. Seaweed and rocks in pipe. Some suds present.	Flow approx. 150-200 GPM.	Flow approx. 120-150 GPM. 18" metal pipe. Pipe filled halfway with rocks.	Flow approx. 60 GPM. Sample collected from north side of outfall.	Trickle. Sample collected from north side of outfall.	Moderate to high flow.
Temperature, °C	15.1	13.0	13.7	12.2	13.1	13.4
Specific Conductivity, µS	60.6	309.5	202	474	1305	394
Salinity, ppt	0.0	0.1	0.1	0.2	0.5	0.2
Ammonia, mg/L	0.2	0	0.1	0	0	0
Chlorine, mg/L	0.04	0.00	0.02	0.02	0.12	0.02
Surfactants, mg/L	0.6	0.2	0.2	0.2	0.75	0.1
Atenolol, ng/l	ND	ND	ND	ND	ND	ND
Acetaminophen, ng/l	24	ND	ND	ND	25	ND
Cotinine, ng/l	58	0.66	1.0	0.53	35	0.50
1,7-Dimethylxanthine, ng/l	63	2.4	1.5	ND	11	2.1
Caffeine, ng/l	1,600	4.4	9.4	16*	180	5.7
Carbamazepine, ng/l	ND	ND	11	ND	ND	2.7
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	587	69	122	162	2,908	174
Enterococcus, MPN/100ml	259	ND	31	10	554	41

NA: Not analyzed

ND: Not detected above reporting limit

GPM: gallons per minute

*: Qualified data, refer to laboratory report



SS01: Outfall located on the north end of Short Sands Beach.



SS01A: In-stream sample located to the southeast of Burnette's Trailers and Tents.



SS01B: In-stream sample located within the Burnette's Trailers and Tents property, to the southeast (downstream) of the bridge crossing.



SS01C: In-stream sample collected from the northwest end of Burnette's Trailers and Tents property.



LS03: Outfall located along Long Sands Beach across from 67 Long Beach Avenue.



MHB04: Outfall located along Long Sands Beach across from 155 Long Beach Avenue.



LS04: Outfall located along Long Sands Beach across from Oceanside Avenue.



LS02: Culverted stream located along Long Sands Beach between Beacon Street and Juniper Road.



LS05: Outfall located along Long Sands Beach across from 251 Long Beach Avenue.



LS01: Outfall located along Long Sands Beach across from 325 Long Beach Avenue.



LSR01: Outfall located along Long Sands Beach across from Long Sands Road.



LR01: Culverted stream located on the south end of Long Sands Beach which conveys the Little River to the Atlantic Ocean.